

Dual Band Sleeve Antenna

Abstract

A cost efficient multi-band antenna, for use with non-harmonically related frequency bands, for example dual Wi-Fi frequency bands. An antenna element extends away from a ground plane. A sleeve positioned coaxial about the antenna element is spaced apart from the antenna element and the ground plane. Dimensions, spacing and dielectric constants of the antenna element, sleeve and any dielectric spacers are selected to tune the antenna to the desired frequency bands. Further, the ground plane may be the radiating element of, for example a GPS module or SDAR antenna to create a triple frequency band antenna assembly.